

# Knife Ring Flaker

Soft Wood Flaking

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**MAIER**<sup>®</sup>  
Technik für die Umwelt

DIEFFENBACHER GROUP

## Soft Wood Flaking: Problem

### Problem

- Fibres of soft wood cover the cutting edges of the knives in cutting process
- Flaking of 100% soft wood (poplar, spruce) reduces knife ring life time down to 1 – 3 h

### Solution

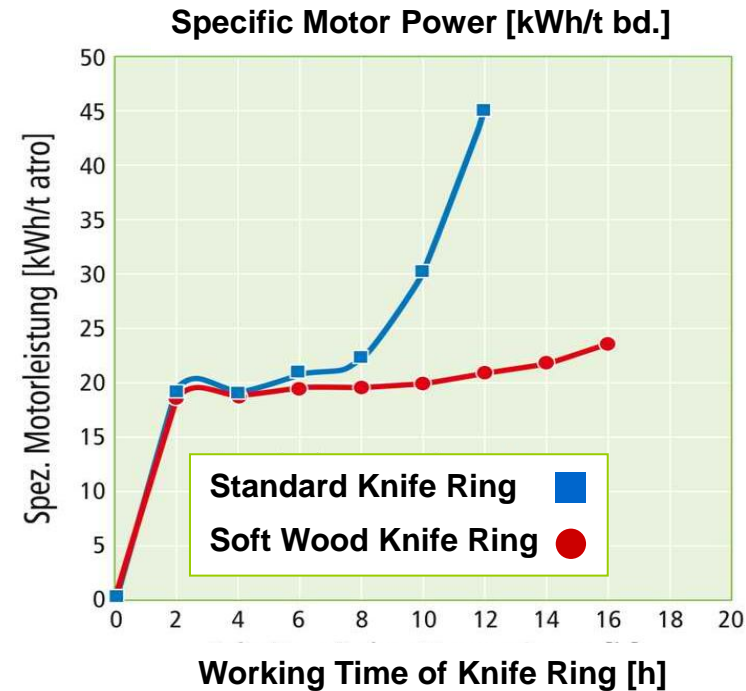
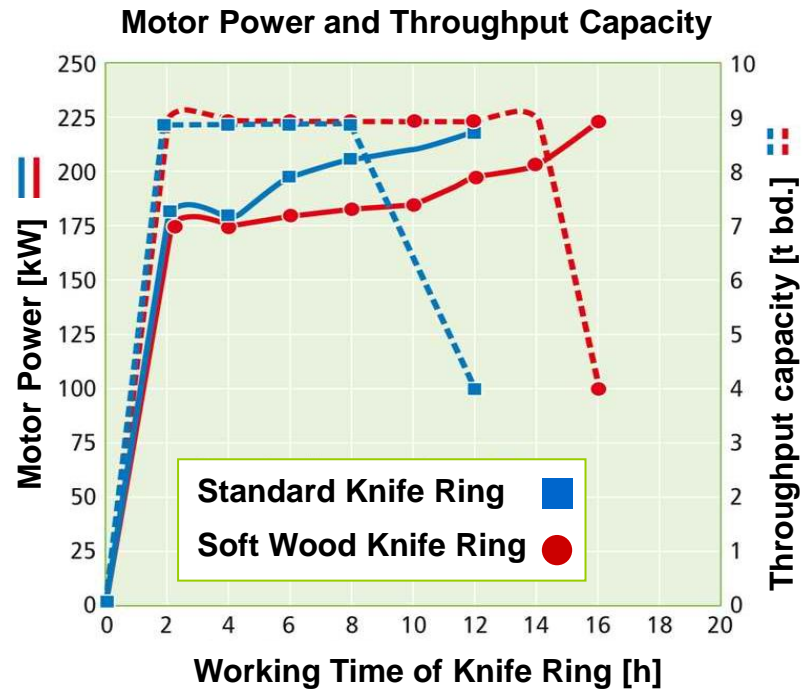
- Development of a special soft wood knife ring with adapted design
- Knife support and knife angle similar to veneer peeling but cutting speed from flaking



Cutting edges of knives  
covered by soft wood fibres



## Soft Wood Flaking: Results of Development



**Wood:** Espe  
**Flake Thickness:** 0,5 – 0,6 mm  
**Speed:** 1.400 min<sup>-1</sup>

### Advantage of Soft Wood Knife Ring:

- Less energy consumption
- Increase of knife ring life time
- Constant throughput
- Production of high quality flakes

